

Methylene Chloride(CH₂Cl₂)

Specifications

Items	UNIT	Methylene Chloride
Purity	wt. %	99.90min.
Moisture	ppm	100max.
Acidity as HCl	ppm	5max.
Non-volatile Matter	ppm	10max.
Color	APHA	5max.
Appearance		Clear and colorless

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Specifications

Items	Unit	Methylene Chloride
Chemical Formula		CH ₂ Cl ₂
Molecular weight	g/mole	84.9
Freezing Point	°C	-96.7
Boiling Point	°C	39.8
Steam Distillation Point(1 atm)	°C	38.3
Latent Heat of Vaporization (B.P.)	cal/g	78.7
Specific Heat (Liquid,20°C) (Vapor,B.P.)	cal/g/°C	0.280 0.155(40°C)
Thermal Conductivity(Liquid,20°C) (Vapor,B.P.)	$\frac{\text{Btu}\cdot\text{ft}}{\text{hr}\cdot\text{ft}^2\cdot^\circ\text{F}}$	0.0920 0.00438
Critical Temperature	°C	245
Critical Pressure	atm	60.9
Vapor Pressure(20°C)	mmHg	350
Specific Gravity (20°C/4°C)		1.3255
Vapor Density (B.P.,760mmHg)	g/l	3.3
Coefficient of Cubical Expansion	ml/ml/°C	0.00137(0~40°C)
Surface Tension in Air (20°C)	dyne/cm ²	28.2
Diffusivity in Air (25°C,1atm)	cm ² /sec	0.091
Vaporization Rate (Ether=100)		71
Vaporization Rate (n-butyl acetate=100)		2750
Solubility in H ₂ O (25°C)	%	1.32
Solubility H ₂ O in (25°C)	%	0.195
Viscosity (Liquid,20°C) 0.0109(40°C)	cp	0.425 0.0109(40°C)
Refractive Index (Liquid N) (Vapor,b.p.)		1.4244 1.001055(25°C)
Dielectric Constant (Liquid,20°C) (Vapor,B.P.)		9.1 1.0085
Power factor (1,000 cycles)	%	
Heat of Formation (Liquid) (Vapor)	$\frac{\text{kg}\cdot\text{cal}}{\text{mole}}$	23.6 21.7